

NCEI **Entrez** **Protein QUERY** **BLAST** **Entrez** **?**

Other Formats:**FASTA****Graphic****Links:****MEDLINE****DNA****Related Sequences**

LOCUS 2190043 448 aa 15-APR-1998
 DEFINITION presenilin-2.
 ACCESSION 2190043
 PID g2190043
 DBSOURCE DDBJ: locus AB004454, accession AB004454
 KEYWORDS
 SOURCE Norway rat.
 ORGANISM Rattus norvegicus
 Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;
 Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 REFERENCE 1 (sites)
 AUTHORS Tanahashi, H. and Tabira, T.
 TITLE Cloning of the cDNA encoding rat presenilin-2
 JOURNAL Biochim. Biophys. Acta 1396 (3), 259-262 (1998)
 MEDLINE 98207716
 REFERENCE 2 (residues 1 to 448)
 AUTHORS Tanahashi, H.
 TITLE Direct Submission
 JOURNAL Submitted (28-MAY-1997) to the DDBJ/EMBL/GenBank databases. Hiroshi Tanahashi, National Institute of Neuroscience, Division of Demyelinating Disease and Aging; 4-1-1 Ogawahigashi, Kodaira, Tokyo 187, Japan (E-mail: tanahash@ncnaxp.ncnp.go.jp, Tel: 81-423-41-1717, Fax: 81-423-46-1747)
 COMMENT Sequence updated (06-Jun-1997)
 Sequence updated (08-Jun-1997).
 FEATURES Location/Qualifiers
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 Protein 1..448
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 CDS 1..448
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 241 lvfikylpew sawvilgais vydlvavlcp kgplrlmlvet aqernepifp aliyssamvw
 301 tvgmakldps sggalqlpyd pemeedsyds fgepsypeaf eapqpgypge epeeeeergv
 361 klglgdfify svlvgkaa at gngdwsttla cfiaailiglc ltlilllavfk kalpalpisi
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NCBI	Entrez	Protein QUERY	BLAST	Entrez	?
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Other Formats:

FASTA

Graphic

Links:

MEDLINE

Related Sequences

LOCUS 3123257 448 aa 15-JUL-1998
 DEFINITION PRESENILIN 2 (ALG-3) (ALZHEIMER DISEASE 4 HOMOLOGUE).
 ACCESSION 3123257
 PID g3123257
 DBSOURCE SWISS-PROT: locus PSN2_MOUSE, accession Q61144
 class: standard.
 extra accessions: P97935, P97934, created: Nov 1, 1997.
 sequence updated: Jul 15, 1998.
 annotation updated: Jul 15, 1998.
 xrefs: gi: 1710118, gi: 1710119, gi: 2315275, gi: 2315276, gi: 1213517, gi: 1213518
 xrefs (non-sequence databases): MGD MGI:109284
 KEYWORDS TRANSMEMBRANE; ALTERNATIVE INITIATION.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;
 Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 REFERENCE 1 (residues 1 to 448)
 AUTHORS Vito, P., Wolozin, B., Ganjei, J.K., Iwasaki, K., Lacana, E. and D'Adamio, L.
 TITLE Requirement of the familial Alzheimer's disease gene PS2 for apoptosis. Opposing effect of ALG-3
 JOURNAL J. Biol. Chem. 271 (49), 31025-31028 (1996)
 MEDLINE 97094860
 REMARK SEQUENCE FROM N.A.
 TISSUE=LIVER
 REFERENCE 2 (residues 1 to 448)
 AUTHORS Vito, P., Lacana, E. and D'Adamio, L.
 TITLE Interfering with apoptosis: Ca(2+)-binding protein ALG-2 and Alzheimer's disease gene ALG-3
 JOURNAL Science 271 (5248), 521-525 (1996)
 MEDLINE 96152375
 REMARK SEQUENCE OF 340-448 FROM N.A.
 TISSUE=LIVER
 COMMENT On May 8, 1998 this sequence version replaced gi: 2498816.
 [FUNCTION] MAY PLAY A ROLE IN INTRACELLULAR SIGNALING AND GENE EXPRESSION OR IN LINKING CHROMATIN TO THE NUCLEAR MEMBRANE. MAY FUNCTION IN THE CYTOPLASMIC PARTITIONING OF PROTEINS (BY SIMILARITY).
 [SUBCELLULAR LOCATION] INTEGRAL MEMBRANE PROTEIN (BY SIMILARITY).
 [TISSUE SPECIFICITY] UBIQUITOUSLY EXPRESSED, MOSTLY IN THE LIVER.
 [ALTERNATIVE PRODUCTS] TWO FORMS OF THE PROTEIN, PS-2 AND PS2-SHORT, MAY BE PRODUCED BY THE USE OF ALTERNATIVE INITIATION SITES.
 [SIMILARITY] STRONG, TO OTHER MAMMALIAN PRESENILINS. SOME, TO C.ELEGANS SPE-4.
 FEATURES Location/Qualifiers
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 /db_xref="taxon:10090"
 Region 1..448
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 /region_name="Mature chain"
 Protein 1..448
 /product="PRESENILIN 2"
 Region 88..106
 /region_name="Transmembrane region"
 Region 142..160
 /region_name="Transmembrane region"
 Region 167..188

Region /region_name="Transmembrane region"
203..219
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253..269
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288..305
Region /region_name="Transmembrane region"
298..448
/note="PRESENILIN 2-SHORT."
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387..406
Region /region_name="Transmembrane region"
413..429
Region /region_name="Transmembrane region"

ORIGIN

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241 lvfikylpew sawvilgais vydlvavlcg kgplrmvet aqernepifp aliyssamvw
301 tvgmakldps sqgalqlpyd pemedsyds fgepsypeaf eaplpgygpe eleeeeeergv
361 klglgdfify svlvgkaaas gngdwnttla cfiaailiglc ltlilllavfk kalpalpisi
421 tfglifyfst dnlvrpfmt lashqlyi
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